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**PATENT**  
**(5181-70200/P5198)**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

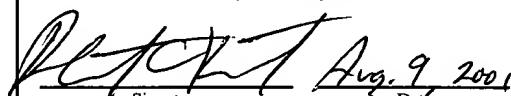
Application No.: 09/653,451  
Filed: August 31, 2000  
Inventor(s):  
Slaughter et al

§ Examiner: Unknown  
§ Group/Art-Unit: 2152  
§ Atty. Dkt. No: 5181-70200

Title: **METHOD AND  
APPARATUS TO  
DISCOVER SERVICES  
AND NEGOTIATE  
CAPABILITIES**

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to Commissioner for Patents, Washington, DC 20231, on the date indicated below.

Robert C. Kowert  
Name of Registered Representative

  
Signature Aug. 9, 2001  
Date

**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
Washington, D.C. 20231

Sir:

Applicant requests consideration of  the references listed on the attached Form PTO-1449 and/or  the additional information identified below in paragraph 3. A copy of each reference listed on the Form PTO-1449 is enclosed.

1. This Information Disclosure Statement is submitted:

- a.  within 3 months of the filing date of a national application other than a continued prosecution application under § 1.53(d);  
 within 3 months of the date of entry of the national stage as set forth in § 1.491 in an International application;  
 before the mailing date of a first Office Action on the merits; or  
 before the mailing of a first Office Action after the filing of a request for continued examination under § 1.114.
  
- b.  after the events of above paragraph 1a and prior to the mailing date of a final Office Action or Notice of Allowance, and thus:  the certification of paragraph 2 below is provided, or  a fee of \$180.00 is enclosed.

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c.  after the mailing date of a final Office Action or a Notice of Allowance and prior to payment of the issue fee, and thus: the certification of paragraph 2 below is provided and a fee of \$180.00 is enclosed.

2. It is hereby certified:

that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the Statement, or

that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the person signing the certification after making reasonable inquiry, was known to any individual designated in § 1.56 (c) more than three months prior to the filing of the Statement.

3.  Consideration of the following additional information (including any co-pending or abandoned U.S. applications, prior uses and/or sales, etc.) is requested:

4. For each non-English language reference listed on the attached Form PTO-1449:

reference is made to an English language translation submitted herewith, and/or

reference is made to a foreign patent office search report (in the English language) submitted herewith, and/or

reference is made to an English language translation of a foreign patent office search report submitted herewith, and/or

reference is made to the concise explanation contained in the specification of the present application at page(s) \_\_\_\_\_, and/or

reference is made to the concise explanation set forth below:

5.  Applicant also offers the following comments for the Examiner's consideration:

6.  Also enclosed is a copy of a foreign search report citing these references.

7.  The listed documents were brought to the attention of the Applicant(s) after payment of the issue fee in the captioned case. The documents were cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. Applicant(s) request this Information Disclosure Statement and attached Form PTO-1449 be placed in the file of the captioned application.

8.  Applicant(s) requests that the Information Disclosure Statement and attached Form PTO-1449 and references, which are being filed before the grant of the patent and pursuant to 37 C.F.R. § 1.97(i), be placed in the file of the captioned application.

If any required fees are missing, the Commissioner is authorized to charge said fees to Conley, Rose & Tayon, P.C. Deposit Account No. 50-1505/5181-70200.

Respectfully submitted,



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Date: Aug. 9, 2001

<b>Form PTO-1449</b> (modified) <b>O I P</b> List of Patents and Publications For Applicant's Information Disclosure Statement AUG 13 2001 (use several sheets if necessary)		ATTY. DKT. NO. 5181-70200 APPLICANT: Slaughter et al. FILING DATE: August 31, 2000	SERIAL NO. 09/653,451 GROUP: 2152
<b>OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)</b>			
	B1	"Java™ Remote Method Invocation Specification," Sun Microsystems, Inc., <java.sun.com/products/dk1.2beta1>, 1997.	
	B2	Agha, et al., "Actorspaces: An Open Distributed Programming Paradigm," University of Illinois, Report No. UIUCDCS-R-92-1766, Open Systems Laboratory TR NO. 8, pp. 1-12, November 1992.	
	B3	Ahmed, et al., "A Program Building Tool for Parallel Applications," Yale University, pp. 1-23, December 1, 1993.	
	B4	Aldrich, et al., "Providing Easier Access to Remote Objects in Client-Server Systems," System Sciences, 1998, Proceedings of the 31 <sup>st</sup> Hawaii Internat'l. Conference, Jan. 6-9, 1998, pp. 366-375.	
	B5	Aldrich, et al., "Providing Easier Access to Remote Objects in Distributed Systems," Calif. Institute of Technology, www.cs.Caltech.edu/%7Ejedi/paper.html, Nov. 21, 1997.	
	B6	Anderson, et al., "Persistent Linda: Linda + Transaction + Query Processing," Proceedings of the 13 <sup>th</sup> Symposium on Fault Tolerant Systems, pp. 93-109, 1991.	
	B7	"Transparent Network Computing," Locus Computing Corporation, January 5, 1995.	
	B8	Alexander, et al., "Active Bridging," Proceedings of the ACM/SIGCOMM'97 Conference, Cannes, France, September, 1997.	
	B9	Beech, et al., "Object Databases as Generalizations of Relational Databases," Computer Standards & Interfaces, Vol. 13, Nos. 1/3 pp. 221-230, Amsterdam, NL, January 1991.	
	B10	Bertino, et al., "Object-Oriented Database Management Systems: Concepts and issues," Computer, Vol. 24, No. 4, pp. 33-47, Los Alamitos, CA, April 1991.	
	B11	Betz, et al., "Interoperable Objects: Laying the Foundation for Distributed Object Computing," Dr. Dobb's Journal, Vol. 19, NO. 11, page 18(13), October 1994.	
	B12	Bevan, et al., "An Efficient Reference Counting Solution To The Distributed Garbage Collection Problem," Parallel Computing, NL, Elsevier Science Publishers, Amsterdam, Vol. 9, No. 2, pages 179-192, January 1989.	
	B13	Birrell, et al., "Distributed Garbage Collection for Network Objects," Digital Systems Research Center, NO. 116, pages 1-18, December 15, 1993.	
	B14	Birrell, et al., "Grapevine: An Exercise in Distributed Computing," Communications fo the ACM, Vol. 25, No. 4, pp. 260-274, April 1982.	
	B15	Birrell, et al., "Network Objects," DEC SRC Research Report 115, February 28, 1995.	
	B16	Birrell, et al., "Implementing Remote Procedure Calls," ACM Transactions on Computer Systems, Vol. 2, No. 1, pp. 39-59, February 1994.	
	B17	Birrell, et al., "Network Objects," Operating Systems Review, 27(5), pp. 217-230, December 1993.	
	B18	Cannon, et al., "Adding Fault-Tolerant Transaction Processing to LINDA," Software-Practice and Experience, Vol. 24(5), pp. 449-466, May 1994.	
	B19	Cardelli, "Obliq, A Lightweight Language For Network Objects," Digital SRC, pp. 1-37, November 5, 1993.	
	B20	Carriero, et al., "Distributed Data Structures in Linda," Principles of Programming Language, pp. 1-16, 1986.	

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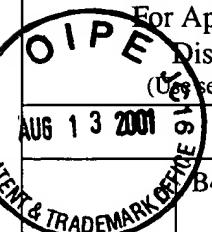
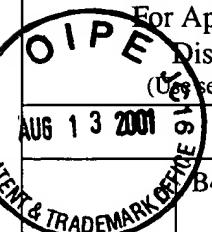
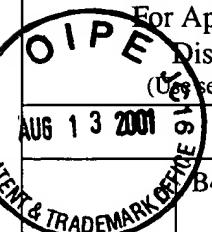
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the patent owner.

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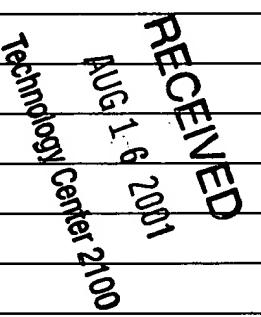
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B82 Lamport, et al., "The Byzantine Generals Problem," ACM Transactions on Programming Languages and Systems, Vol. 4, No. 3, pp. 382-401, July 1982.			
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